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### **AMENDMENTS TO THE CLAIMS**

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Currently Amended) A composition comprising

an immunostimulatory nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:1, wherein the immunostimulatory nucleic acid has a nucleotide backbone comprising at least one phosphorothioate modification, and wherein the C of at least one of the four CpG motifs is unmethylated.

- 2. (Original) The composition of claim 1, wherein the immunostimulatory nucleic acid molecule consists of the nucleotide sequence of SEQ ID NO:1.
  - 3. (Original) The composition of claim 1, further comprising an antigen.
- 4. (Original) The composition of claim 3, wherein the antigen is selected from the group consisting of a microbial antigen, a cancer antigen, and an allergen.
- 5. (Original) The composition of claim 4, wherein the microbial antigen is selected from the group consisting of a bacterial antigen, a viral antigen, a fungal antigen and a parasitic antigen.
- 6. (Original) The composition of claim 3, wherein the antigen is encoded by a nucleic acid vector.
- 7. (Original) The composition of claim 3, wherein the nucleic acid vector is separate from the immunostimulatory nucleic acid.
  - 8. (Original) The composition of claim 3, wherein the antigen is a peptide antigen.

9. (Original) The composition of claim 1, further comprising an adjuvant.

10. (Original) The composition of claim 9, wherein the adjuvant is a mucosal adjuvant.

11. (Original) The composition of claim 1, further comprising a cytokine.

12. (Original) The composition of claim 1, further comprising a therapeutic agent selected

from the group consisting of an anti-microbial agent, an anti-cancer agent, an allergy/asthma

medicament.

13. (Original) The composition of claim 12, wherein the anti-microbial agent is selected

from the group consisting of an anti-bacterial agent, an anti-viral agent, an anti-fungal agent, and an

anti-parasite agent.

14. (Withdrawn) The composition of claim 12, wherein the anti-cancer agent is selected

from the group consisting of a chemotherapeutic agent, a cancer vaccine, and an immunotherapeutic

agent.

15. (Withdrawn) The composition of claim 12, wherein the allergy/asthma medicament is

selected from the group consisting of PDE-4 inhibitor, bronchodilator/beta-2 agonist, K+ channel

opener, VLA-4 antagonist, neurokin antagonist, TXA2 synthesis inhibitor, xanthanine, arachidonic

acid antagonist, 5 lipoxygenase inhibitor, thromboxin A2 receptor antagonist, thromboxane A2

antagonist, inhibitor of 5-lipox activation protein, and protease inhibitor.

16. – 17. (Canceled)

1918. (Currently Amended) The composition of claim 171, wherein the nucleotide backbone

is chimeric.

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2019. (Currently Amended) The composition of claim 171, wherein the nucleotide

backbone is entirely modified.

2120. (Currently Amended) The composition of claim 1, further comprising a

pharmaceutically acceptable carrier.

2221. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is free of methylated CpG dinucleotides.

2322. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid includes at least more than four CpG motifs.

2423. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is T-rich.

2524. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid includes a poly-T sequence.

2625. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid includes a poly-G sequence.

2726. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is formulated for oral administration.

2827. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is formulated as a nutritional supplement.

2928. (Currently Amended) The composition of claim 2827, wherein the nutritional

supplement is formulated as a capsule, a pill, or a sublingual tablet.

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3029. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is formulated for local administration.

3130. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is formulated for parenteral administration.

3231. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is formulated in a sustained release device.

3332. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is formulated for delivery to a mucosal surface.

3433. (Currently Amended) The composition of claim 1, wherein the mucosal surface is

selected from the group consisting of an oral, nasal, rectal, vaginal, and ocular surface.

3534. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid stimulates a mucosal immune response.

3635. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid stimulates a systemic immune response.

3736. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is provided in an amount effective to stimulate a mucosal immune response.

3837. (Currently Amended) The composition of claim 1, wherein the immunostimulatory

nucleic acid is provided in an amount effective to stimulate a systemic immune response.

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3938. (Currently Amended) The composition of claim 1, wherein the immunostimulatory nucleic acid is provided in an amount effective to stimulate an innate immune response.

[[40]]39. (Currently Amended) The composition of claim 1, wherein the immunostimulatory nucleic acid is provided in an amount effective to treat or prevent an infectious disease.

[[41]]40. (Withdrawn and Currently Amended) The composition of claim 1, wherein the immunostimulatory nucleic acid is provided in an amount effective to treat or prevent an allergy.

[[42]]41. (Withdrawn and Currently Amended) The composition of claim 1, wherein the immunostimulatory nucleic acid is provided in an amount effective to treat or prevent asthma.

[[43]]42. (Withdrawn and Currently Amended) The composition of claim 1, wherein the immunostimulatory nucleic acid is provided in an amount effective to treat or prevent a cancer.

[[44]]<u>43</u>. (Currently Amended) The composition of claim <u>3231</u>, wherein the sustained release device is a microparticle.

[[45]]44. (Currently Amended) The composition of claim [[40]]39, wherein the infectious disease is a herpes simplex virus infection.

[[46]]45. (Withdrawn and Currently Amended) A method for stimulating an immune response in a subject in need thereof comprising

administering to a subject an immunostimulatory nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:1, in an amount effective to stimulate an immune response.

[[47.-96]]<u>46.-95</u>. (Cancelled)

9796. (Withdrawn and Currently Amended) A method for preventing disease in a subject, comprising

administering to the subject an immunostimulatory nucleic acid on a regular basis to prevent disease in the subject, wherein the immunostimulatory nucleic acid has a nucleotide sequence comprising SEQ ID NO:1.

9897. (Withdrawn and Currently Amended) A method for inducing an innate immune response, comprising administering to the subject an immunostimulatory nucleic acid in an amount effective for activating an innate immune response, wherein the immunostimulatory nucleic acid has a nucleotide sequence comprising SEQ ID NO:1.

[[99]]98. (Withdrawn and Currently Amended) A method for identifying an immunostimulatory nucleic acid comprising

measuring a control level of activation of an immune cell population contacted with an immunostimulatory nucleic acid comprising a nucleotide sequence of SEQ ID NO:1,

measuring a test level of activation of an immune cell population contacted with a test nucleic acid, and

comparing the control level of activation to the test level of activation, wherein a test level that is equal to or above the control level is indicative of an immunostimulatory nucleic acid.

## 99. (New) A composition comprising

an immunostimulatory nucleic acid comprising the nucleotide sequence of SEQ ID NO:1, wherein the immunostimulatory nucleic acid is equal to or less than 100 nucleotides in length, and wherein the C of the four CpG motifs are unmethylated.

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### 100. (New) A composition comprising

an immunostimulatory nucleic acid comprising the nucleotide sequence of SEQ ID NO:1, and an antigen, wherein the C of the four CpG motifs are unmethylated.

#### 101. (New) A composition comprising

an immunostimulatory nucleic acid comprising the nucleotide sequence of SEQ ID NO:1, wherein the immunostimulatory nucleic acid is single stranded, and wherein the C of the four CpG motifs are unmethylated.

# 102. (New) A composition comprising

an immunostimulatory nucleic acid molecule consisting of the nucleotide sequence of SEQ ID NO:1, wherein the C of the four CpG motifs are unmethylated.